

1ST AND 2ND COPIES		3RD AND 4TH COPIES	
PROCESS AND PROPERTIES INDEX			
CA	<p>Glass. N. K. Dertev. U.S.P.R. 65,932, Feb. 28, 1946. Glass is produced from a mixt. of NaCl, SiO₂, and gypsum according to the reaction: $2\text{NaCl} + \text{CaSO}_4 + 2\text{SiO}_2 = \text{Na}_2\text{O} \cdot \text{SiO}_2 + \text{CaO} \cdot \text{SiO}_2 + \text{SO}_2\text{Cl}_2$. The by-product SO_2Cl_2 is hydrolyzed to yield H_2SO_4 and HCl. By properly controlling the compn. of the charge and the working temp., the production of SO_2Cl_2 can be regulated. Thus, with a thick charge caked, so that the upper layers of it would be at 800° and the lower layers at 1300-50°, the yield of SO_2Cl_2 should be at its max. The gaseous reaction products, consisting primarily of SO_2Cl_2 and HCl vapor, are referred for hydrolysis and condensation. NaCl is added to the condensate, and the mixt. is directed to a sulfate furnace to drive off HCl, which is subsequently absorbed. The compn. of the glass resulting from this process is adjusted, and the glass is directed to a tank furnace. For adjusting the compn. of the glass, the Na_2SO_4 obtained in the sulfate furnace is used. The advantages of this method are that the glass is produced with cheap and readily available NaCl in place of Na_2CO_3 and that in addn. HCl and H_2SO_4 are obtained. M. Hosh</p>		19
ASH-15A METALLURGICAL LITERATURE CLASSIFICATION			
FROM SYNDICATE		FROM BOM/AV	
LONDON 1946		LONDON 1946	

A 13T40

DERTEV, N. K.

USSR/Glass - ~~Manufacture~~
Glass - Chemical properties

Sep 1946

"A New Method of Glass Manufacture Substituting
Sodium Chloride for Soda," N. K. Dertev, 15 pp

"Zhur Prik Khim" Vol XIX, No 9

A new method of fusing glass with sodium chloride.

13T40

1ST AND 2ND ORDERS		PRECEDENCE AND PRIORITY INDEX		3RD AND 4TH ORDERS	
<p>Chemical resistance of glass. N. K. DARTY, B. P. ZAROV, AND R. YA. KHIVITSKI. <i>J. Appl. Chem. USSR</i>, 22 (3) 235-30 (1949). The chemical resistance of glass was determined by leaching out powders and plates. With powders, the ground glass was passed through sieves having 64 and 144 openings per cm²; the grains retained on the 144 mesh sieve were washed of dust, and 2 gm. was treated for 1 hr. at the boiling point with 50 ml. of water previously heated to boiling. After treatment, the solution was titrated with 0.01 N HCl in the presence of methyl red. The surface chemical resistance was determined by treating 10 x 1 cm. plates in water at 80°C for 3 hr. Chemical resistance was expressed as milli-</p>					
<p>grams of NaCl removed from 2 square inches of surface. determination was made by titrating the solution with 0.01 N HCl. In addition, the extent of annealing was determined by measuring double refraction in a polarimeter. There seemed to be no relationship between the chemical composition and chemical resistance of the powder. The surface resistance, L_s, can be expressed by $L_s = K[L_p(a + P)]$, where L_p is the resistance of the powder, K is a proportionality coefficient which depends on condition of the surface, a is a coefficient which includes other factors not taken into account, and P is the stress in the glass. Treatment of plates for 8, 16, and 24 hr. in a shower chamber with running water of pH = 8 to 8.5 at 80°C reduced the chemical resistance; the reduction was less for a well-annealed surface. Plates were also treated with 5% aluminum nitrate solution at room temperature for 24 hr., then washed with 3% HCl, and tested for chemical resistance before and after treatment in the shower chamber. In each case, the aluminum nitrate increased the chemical resistance. Poorly annealed glass has a low chemical resistance because of the micropores and microcracks on the surface. Treatment with aluminum nitrate results in the adsorption of $Al(OH)_3$ on the surface of pores and cracks, thus increasing resistance and reducing the further formation of pores and cracks. The use of aluminum nitrate to increase the chemical resistance of glass may find application in industry. R. Z. K.</p>					
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>					
<p>RECORDING UNIT</p>					
<p>RECORDING UNIT</p>					

BA 9

Solubility of silica in silica-boron oxide glasses. N. K. Dertev and T. A. Khodjakova (*J. appl. Chem. USSR*, 1950, 23, 793-798).

The two component glasses were prepared from chemically-pure B_2O_3 and SiO_2 , thoroughly ground, mixed, and calcined at const. temp. The samples of glasses prepared in this way were treated with distilled water in such a way that the final concn. of B_2O_3 in solution (all B_2O_3 is dissolved) was 1 wt.-%. The remaining SiO_2 was weighed. With rising temp. (from 600° to 1300°) at which SiO_2 and B_2O_3 were melted together, the solubility of SiO_2 of the resulting glass increases, except for a glass containing 30% of SiO_2 . The increased solubility is explained by the increased "solvation" of SiO_2 by B_2O_3 in the melt and the less compact structure of groups of SiO_2 tetrahedra. A glass containing 30% of B_2O_3 shows a decrease of solubility of SiO_2 with rising temp. of fusion from 1000° to 1300°. This is explained by the formation of a compound which is decomposed by water into insol. SiO_2 and sol. B_2O_3 . A glass with 20% of B_2O_3 shows a sharp increase of solubility of SiO_2 when temp. of fusion is raised from 800° to 1000°. This is also explained by the formation of a compound, which in this case starts to dissociate at temp. above 1000°. The formation of chemical compounds in the B_2O_3 - SiO_2 system with 20 or 30% of B_2O_3 has been confirmed by determining the temp. of the appearance of optical anisotropy during the cooling. The solubility of glasses depends also on the grain size of SiO_2 and the rate of fusion and cooling. All the experiments confirmed the hypothesis that the solubility of SiO_2 contained in glasses depends on the structure of the glass which determines the properties of the amorphous layer of hydrated SiO_2 on glass surface. Through this layer different products of hydration diffuse and their rate of diffusion depends on the properties of these products and the structure of the surface layer.

J. H. J. Zaba.

CA

Solubility of silica in $\text{SiO}_2\text{-B}_2\text{O}_3$ glasses. N. K. Derya
and T. A. Khudyakova (Zhdanov Ind. Inst., Gorki).
J. Appl. Chem. U.S.S.R. 23, 880 (1950) Engl. translation.
Solv. of amorphous SiO_2 formed during the hydrolysis of glass depends on the structure of the glass. In two-component $\text{SiO}_2\text{-B}_2\text{O}_3$ glasses, the solv. depends on the compn. and fusion temp. of the mixt. The formation in the glasses of definite chem. compds. may be inferred from the dependence of the solv. on the compn. and temp. of prepn. In $\text{SiO}_2\text{-B}_2\text{O}_3$ glasses, the formation of several chem. compds. (unnamed) is possible. A. George Stern

✓ Crocas from pyrite clads. A. P. ALEXANDROV, Yu. A. POLENYI, AND N. K. DEN (U.S.S.R.) *Sovetsk. Khim.*, 10 (2) 15-17 (1953) -- Crocas was prepared (1) by charging dust from H_2SO_4 works into a flame furnace at $450^\circ C$, calcining at 700° , and then stream treating and (2) by preliminary burning chiefly to decompose the sulfates; a second burning is not required. The polishing capacity of both products was the same. Crocas produced by this method can be used to replace that obtained from iron vitriol. B.Z. 50

DEKTEV, N. K.

Chemistry & Physics

Determination of pH of crocus suspension. N. K. DEKTEV, L. E. ZLOTNIK, AND L. P. FATIKOVA. *Sikho i Keram.*, 10 [2] 17-18 (1953).—The Kolthoff colorimetric method was used satisfactorily. Four test tubes are filled with 10 ml. each of solution from the filtered suspension, and neutral red, methyl red, methyl orange, and tropeolin OO indicators are added. Standard solutions contain mixtures of FeCl_3 and cobalt nitrate. The compositions of the indicators and standard solutions are given.

DERTEV, N.K.

USSR/ Physics - Elasticity

Card 1/1 Pub. 104 - 2/14

Authors : Dertev, N. K., Dr. Tech. Sci., Prof.

Title : ~~USSR/ Physics - Elasticity~~
New system of determining the module of elasticity of glass by the photoelasticity method

Periodical : Stek. i ker. 11/11, 5-6, Nov 1954

Abstract : Details are given of how a polarization microscope is used to observe small glass specimens which are subjected to various precisely measured stresses-tensile, bending etc. Formulas are developed and the mathematical equations involved are explained. One USSR reference (1953). Table.

Institution:

Submitted:

DERTEV, N.K.

USSR/Chemical Technology - Chemical Products and Their Applications - Silicates. Glass. Ceramics. Binders. I-10

Abs Jour : Ref Zhur- Khimiya, No 3, 1957, 8960
Author : Dertev, N.K., Khudyakova, T.A. and Vaganova, V.N.
Inst. : Gorki Polytechnical Institute.
Title : The Effect of Heat Treatment and Stresses in Glass on the Latter's Surface Chemical Resistance.
Orig Pub : Tr. Gor'kovsk. politekhn. in-ta, 1955, 11, No 3, 17-26
Abstract : The effect of heat treatment and of stresses on the chemical resistance (KhU) of glass (G) has been investigated as well as the question of improving the KhU of the latter's.

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USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8960

Specimens of sheet glass and K-3 glass (composition given) were used in the tests. The surface KhU was tested by the mylius iodo-eosin method, the concentration of iodi-eosin Na in the solution being determined with the aid of a FEK-M photoelectric colorimeter. It is shown that the KhU depends to a great extent on the condition of the surface film, heat treatment below 400° having a great effect of the KhU of the G. When G is soaked at temperatures below 400°, a considerable decrease in KhU is observed from which it follows that the cooling rate of G below 400° must be the maximum possible.

Card 2/3

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour6 : Ref Zhur - Khimiya, No 3, 1957, 8960

It is noted that stresses in G have no direct
effect on the KhU of the G. However, on
prolonged exposure to the atmosphere this
improvement appears to be short-lived.

Card 3/3

USSR/Chemical Technology -- Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1578

Author: Dertev, N. K., and Glebova, T. V.

Institution: Gorki Polytechnical Institute

Title: The Effect of Annealing Followed by Paraffin Treatment on the
Chemical Resistance of Glass

Original

Periodical: Tr. Gor'kovsk. politekn. in-ta, 1955, Vol 11, No 3, 27-29

Abstract: The effect of annealing with subsequent paraffin treatment of glass on the surface chemical resistance of the latter (PKhU) has been investigated. Mylius' iodo-eosin method was used in evaluating the results of the test. It is noted that the annealing of sheet glass at 250°, followed by paraffin treatment, improves its resistance to chemical attack. The paraffin treatment is recommended as a practical means of improving the PKhU of equipment glasses.

Card 1/1

ABRAMOV, V.V., kand.tekhn.nauk; AGEYEV, D.V., doktor tekhn.nauk, prof.;
BANDAS, A.M., doktor tekhn.nauk, prof.; VERKHOVSKIY, A.V., doktor
tekhn.nauk, prof.; GOLINKOVICH, N.A., kand.tekhn.nauk, dots.;
DERTEV, N.K., doktor.tekhn.nauk, prof.; MATTS, N.V., doktor tekhn.
nauk, prof.; RYZHIKOV, A.A., doktor tekhn.nauk, prof.; PASYNKOV,
O.N., otv.za vypusk

[New method for calculating thermal stresses] Novyi raschetnyi
metod vychisleniia termicheskikh napriazhenii. Gor'kii, 1958.
57 p. (Gorkiy.Politekhnikheskii institut. Trudy, vol.14, no.3)

(MIRA 13:7)

(Thermal stresses)

5(2), 5(4)

SOV/153-2-3-21/29

AUTHORS:

Borisov, A. F., Dertev, N. K.

TITLE:

An Electrochemical Method for Investigating the Melting Process of Glass

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 3, pp 420-423 (USSR)

ABSTRACT:

In earlier investigations the authors had found that the emf of a galvanic pair of glasses depends on the concentration difference of the oxygen ions in the two glasses (Ref 4). Due to this fact the measurement of the emf of molten glass may be used for the automatic quantitative determination of the chemical homogeneity of the melt. Similar investigations had been carried out by Le Clerc (Ref 1), Yesin and Lepinskikh (Ref 2), Didtschenko and Rodnow (Ref 3). The emf of a completely homogeneous melt equals theoretically zero. By a continuous control and recording of the emf of the glass during the melting process the kinetics of these processes may be investigated in dependence on the different various technological factors. The viscosity of the glasses was determined according to experimental data by Skornyakov, Kuznetsov, Yevstrop'yev (Ref 8). In

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SOV/153-2-3-21/29

An Electrochemical Method for Investigating the Melting Process of Glass

the present paper this method is used for the investigation of the melting processes of glasses with 2 components ($\text{Na}_2\text{O}-\text{SiO}_2$). The measuring device applied is schematically represented and described in detail. By means of the method developed the influence exercised by some chemically active additions (NaNO_3 , Na_2SiF_6 , NaCl , $(\text{NH}_4)_2\text{SO}_4$) on the velocity of the melting of glass of the composition 34% Na_2O and 66% SiO_2 was investigated. The results are tabulated. The method may also be used for the investigation of the melting processes of glasses with complicated composition. In this case the residue potential of the homogeneous glass of the corresponding composition must be determined first; this potential is then used as calibration value for the measurement of homogeneity. The new method described is therefore well suited for testing the homogeneity of glass masses. The student A. F. Koklyunov assisted in the experimental work. There are 4 figures, 1 table, and 8 references, 6 of which are Soviet.

Card 2/3

SOV/153-2-3-21/29

. An Electrochemical Method for Investigating the Melting Process of Glass

ASSOCIATION: Gor'kovskiy politekhnicheskiy institut imeni A. A. Zhdanova
Kafedra tekhnologii silikatov (Gor'kiy Polytechnic Institute
imeni A. A. Zhdanov, Chair of Silicate Technology)

SUBMITTED: March 15, 1958

Card 3/3

15(6)

AUTHORS: Dertev, N. K., Professor,
Gorokhovskiy, V. A.

SOV/72-59-1-2/16

TITLE: GlassMetal Flux in the Channel With a Consecutive Arrangement
of Machines (Potoki steklomassy v kanale pri posledovatel'nom
raspolozhenii mashin)

PERIODICAL: Steklo i keramika, 1959,¹⁶ Nr 1, pp 3 - 8 (USSR)

ABSTRACT: The test was carried out in the large trough furnace number 1
of the stekol'nogo zavoda imeni Gor'kogo (Glass Works imeni
Gor'kiy), for the section G-G and E-E (Fig 1) with glass
addition, which was marked by luminescence indicators. On
account of the data obtained (Tables 1, 2, and 4), the speed
curves of the glass metal motion in various channel depths
were constructed (Fig 2, Curves 1 and 2). The passage time
of the surface flux from section G-G to the shuttle of
machine 2 was established (Table 3, Fig 3). Moreover, the
glass metal flux from section V-V to section E-E (Figs 4 and
5, and Table 5) was tested. The test of the glass metal
movement at the channel end was supplemented by the test
of the flux at the beginning of the heating chamber of

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Glass Metal Flux in the Channel With a Consecutive
Arrangement of Machines

SOV/72-59-1-2/16

machine 2 (Section N-N, Fig 1 and Table 6). M. G. Stepanenko and I. O. Tomashevich obtained the same results by tests carried out in 1939. It was found that the glass metal moves in spiral turns (Fig 6). The glass quality of machine 2 is continuously inferior to that of machine 3 (Tables 7 and 8) which can be explained by the fact that machine 2 is fed by glass metal flux which moves along the wall and contains impurities. Conclusions: Machine 3 is fed by the inner part of the glass metal flux and produces high-grade glass. A counter flux cannot be seen with a consecutive arrangement of two machines, contrary to the results of other authors. The maximum speed of the glass metal flux can be observed in depths of 250 to 300 mm and 500 mm. The speed of the working flux from section G-G to the shuttle slot of machine 2 changes according to the depths, from 0.47 to 0.96 m/per hour. The glass metal movement in the heating chamber of machine 2 is very complicated. The editors ask their readers to participate actively in the discussion of this article and to make available the results of their observations and tests. There are 6 figures and 8 tables.

Card 2/3

Glass Metal Flux in the Channel With a Consecutive
Arrangement of Machines

SOV/72-59-1-2/16

ASSOCIATION: Kafedra silikatov Gor'kovskogo politekhnicheskogo instituta
(Chair of Silicates of the Gor'kiy Polytechnical Institute)

Card 3/3

DERTEV, N. K.; VORONKOVA, Z. P.; BORISOV, A. F.

"Application of EMF method to studying glass structure."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

L 60949-65 EWT(1)/EWP(1)/EWT(1)/EWP(1)/T/EEC(b)-2/EWP(b) Pq-4/P1-4 IJP(c)
 36/WH
 ACCESSION NR: AP5018933 UR/0383/65/001/006/0957/0962 41
 666.1:542.65
 AUTHOR: Dertev, N. K.; ⁴⁴Borisov, A. F.; ⁴⁴Zadumina, V. I.; ⁴⁴Trushkov, A. I. 37
 TITLE: Emf study of the effect of heat treatment of glass in the precrystallization period on the nature of crystallization B
 SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 6, 1965, 957-962
 TOPIC TAGS: ⁵⁴⁴glass crystallization, lithium glass
 ABSTRACT: To study crystallization processes in a glass of the system $Li_2O - Al_2O_3 - SiO_2$ containing an admixture of TiO_2 , use was made of a rapid emf method which made it possible to follow changes in the ratio of the vitreous to the crystalline phase, structural changes in the glass during the precrystallization period which substantially affect the subsequent crystallization, and the sequence of separation of the phases in the course of the heat treatment. In addition, differential thermal and x-ray structural analysis were employed. Results of the emf study of catalyzed crystallization lead to the conclusion that during the initial period of crystallization only the first crystalline phase is formed, the time of its formation and its quantity being dependent on the temperature.

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L 60949-65

ACCESSION NR: AP5018933

4
At high temperature, the crystalline phases separate together. The most extensive formation of the first crystalline phase can be achieved by using a two-stage heat treatment (during the precrystallization period and at a low crystallization temperature). Emf measurements make it possible to determine the optimum temperature of preliminary heat treatment; for the glass under consideration, this temperature is 60-70°C below the softening point. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Gor'kovskiy politekhnicheskii institut im. A. A. Zhdanova (Gor'kiy Polytechnic Institute); Saratovskiy filial Gosudarstvennogo instituta stekla (Saratov Branch, State Institute of Glass) 44

SUBMITTED: 11Feb65

ENCL: 00

SUB CODE: MT, G-C

NO REF SOV: 004

OTHER: 000

Card 2/2

DERTEVA, I.I.

Effect of antiplague serum on *Vibrio comma* in vitro and in vivo.
Report No.2: Effect of antiplague serum on phagocytosis of *Vibrio comma*
in the animal organism, author's abstract. Zhur.mikrobiol.epid. 1
immun. 29 no.2:105 F '58. (MIRA 11:4)

1. Iz Instituta mikrobiologii i epidemiologii Yugo-Vostoka SSSR "Mikrob."
(PLAGUE, immunology,
eff. of immune serum on phagocytosis in animals (Rus)

DERTEVA, I.I.

Action of antiplague serum on the plague microbe in vitro and in the animal organism. Report No.5: Effect of antiplague serum on the change in the reactivity of the macroorganism ~~to~~ the plague antigen. Zhur. mikrobiol. epid. i immun. 31 no.3:97-100 Mr '60.

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta "Mikrob".
(PLAGUE)

DANILOVA, M.F.; DERTEVA, Ye.Yu.

Anatomical and physiological data on the translocation of water
and dissolved substances in the root tissues. Bot. zhur. 49
no.9:1347-1365 S '64. (MIRA 17:12)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.

DERTEVA, Ye.Yu.

Structure and function of the endoderm. Bot. zhur. 50 no.9:
1327-1337 S '65. (MIRA 18:10)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

DETSKYAN, A.K., inzh.

Classifying swamps with reference to the construction of gas pipelines. Stroi.truboprov. 6 no.10:12-13 0 '61. (MIRA 14:10)

1. Giprospekgaz, Leningrad.
(Swamps) (Gas, Natural--Pipelines)

DETSKYAN, A.K., inzh.; MAKUROV, B.D., inzh.; SHTAGER, V.V., inzh.

When is a maintenance road necessary for swamp crossings? Stroi.
truboprov. 7 no.1:14 Ja '62. (MIRA 16:7)

1. Giprospekgaz (for Makurov).
2. Leningradskoye Upravleniye
magistral'nykh gazoprovodov, g. Leningrad (for Shtager).
(Pipelines—Maintenance and repair)

DERTSAKYAN, A.K., inzh.; ZIRYANOV, V.P., inzh.

Laying a gas pipeline at ground level. Stroi. truboprov. 7
no.12:5-7 D '62. (MIRA 16:1)

1. Giprospeetsgaz, Leningrad.
(Gas, Natural—Pipelines)

TERESHCHENKO, Pavel Leont'yevich; DETSKYAN, A.K., nauchn.
red.; RUSAKOVA, L.Ya., ved. red.

[Immersion of water-filled pipelines in subaqueous pipe-
line construction] Ukladka podvodnykh truboprovodov spo-
sobom svobodnogo pogruzheniia. Leningrad, Nedra, 1965.
84 p. (MIRA 18:7)

DETSKYAN, Ashot Kirillovich, inzh.; MAKUROV, Boris
Dmitrovich, inzh.; RUSAKOVA, L.Ya., ved. red.

[Pipeline crossings over swamps] Perekhody magistral'-
nykh truboprovodov cherez bolota. Leningrad, Nedra,
1965. 214 p. (MIRA 18:7)

DETSAKYAN, V. A.

AUTHOR: Dertsakyan, V.A., Engineer

135-10-12/19

TITLE: Contact Welding of Studs to Transformer Covers (Kontaktnaya privarka shpilek k kryshkam transformatorov)

PERIODICAL: Svarochnoye Proizvodstvo, 1957, No 10, pp 33-34 (USSR)

ABSTRACT: The article deals with welding of studs - serving for attaching the insulators, the commutator, the drain cock and the thermometer - to covers of oil transformers sizes I and II ("gabarit I and II"), in amounts of 6 to 38, depending on the type of transformer. Presently, the plant "Armelectro" practices manual arc welding of such studs through a hole drilled in the cover. The Zaporozh'ye Transformer Plant employs electric riveting through drilled holes. The Moskva Transformer Plant practices pistol welding under flux, with squeezing out of molten metal. The disadvantages of these methods are the following: drilling operations, necessity of truing after welding, splatter of metal. Testing the tightness of the joints requires two workers, one moves a compressed air hose to the stud while the other tests the tightness with the use of soap emulsion on the other side. Further the metal is burnt through occasionally, and sometimes the supporting bushing has to be adjusted several times because of different

Card 1/2

Contact Welding of Studs to Transformer Covers

135-10-12/19

lengths of the studs. The Plant "Armelectro" has now started contact welding of studs which eliminates the aforementioned disadvantages. The contact welding machine (Figure 5) employed for this operation is a converted spot welding machine (MTP -150). A pantographic table (Figure 5) with a templet serves for easy moving of the transformer cover in horizontal plane between the electrodes. The bottom electrode is guided by the arcs (Figure 3) on the templet to the spots of welding. The welding process starts from the central portion of the stud diameter and spreads to the periphery. The connection is of higher strength than the body of stud itself, as the test results show (Figure 4). The comparative technical and economic data for all aforementioned stud welding methods are shown by chart. There are 5 figures, and 1 chart.

AVAILABLE: Library of Congress

Card 2/2

NIEWIADOMSKA, Stanislaw; DEHUBSKA, Barbara

Co-existence of peptic ulcer and tuberculosis. Gruzlica 27 no.8:
937-942 S '59.

1. Z Kliniki Gruzlicy A.M. we Wroclawiu. Kierownik: prof.dr med.
T. Garbinski.

(PEPTIC ULCER compl.)

(TUBERCULOSIS PULMONARY compl.)

POLAND

GARBINSKI, Tadeusz, DERUBSKA, Barbara, and RZESZUTKO, Bronislawa, Tuberculosis Clinic (Klinika Gruzlicy), AM [Akademia Medyczna, Medical Academy] in Wroclaw (Director: Prof. Dr. med. Tadeusz GARBINSKI)

"Pulmolithiasis. Report of Two (2) Cases."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 37, 9 Sep 63, pp 1390-1393

Abstract: [Authors' English summary] Authors discuss pulmolithiasis as a special disease. They distinguish two forms in accordance with size and location, namely microlithiasis and macrolithiasis, which maybe divided into broncho-, pulmo-, and nodolithiasis. They describe two cases of microlithiasis and broncholithiasis. There are 10 references: one each Soviet, Polish, and German, and 7 Western.

1/1

DERUBSKA, Barbara; KOTZ, Jerzy

Studies on a model of experimental silicosis after intraperitoneal injection of SiO_2 in guinea pigs. Arch. immun. ther. exp. 12 no.3: 379-387 '64.

1. Clinic of Tuberculosis, School of Medicine, Wroclaw; Chair of Pathological Anatomy, School of Agriculture, Wroclaw.

DERUBSKA, Barbara; KOTZ, Jerzy

Experimental silicosis. Gruzlica 32 no.8:665-670 Ag '64.

1. Z Kliniki Gruzlicy Akademii Medycznej we Wrocławiu (p.o. Kierownik: dr. med. K. Sosnowski) i z Katedry Anatomii Patologicznej Wyższej Szkoły Rolniczej we Wrocławiu (Kierownik: prof. dr. A. Zakrzewski).

HORNUNG, Stanislaw; POLONCZYK, Mieczyslaw; DELOFF, Leonard; ~~DERUBSKA, Barbara~~; GARNUSZEWSKI, Zbigniew; JAROSZEWICZ, Wiwa; JAWORSKI, Jan; MYSAKOWSKA, Helena; PARYSKI, Edwin; PECAK, Wladyslaw; PREGOWSKI, Wladyslaw; SOSNOWSKI, Wacław; WESTFAL, Irena; ZIERSKI, Marian

Primary resistance to basic antitubercular drugs in pulmonary tuberculosis patients observed in Poland during the period of 1961-1962. Gruzlica 32 no.8:629-636 Ag '64.

DERUBSKA, Barbara; RZESZUTKO, Bronislawa

A case of a pulmonary form of lupus erythematosus. Gruzlica 33
no.4:347-349 Ap '65.

1. Z Kliniki Gruzlicy AM we Wroclawiu (Kurator: prof. dr. med.
J. Kaniak).

WEISS, Marian; DERHULSKA, Irma; TABJAN, Włodzimierz

Attempted application of cyclography in the analysis of movement disorders. Polski tygod.lek. 15 no.45:1719-1722 7 N '60.

1. Ze Szpitala Chirurgii Kostnej w Konstancinie; dyrektor: doc.
dr med. M.Weiss.

(MOVEMENT DISORDERS diag)

DERULSKA, Irmna, Rybnik

Postgraduate courses of physical therapy. Przegl. lek. Krakow
10 no.12:319-321 Dec 54.

1. Ze szpitala miejskiego w Rybniku, Oddzial urazowo-orthopedyczny
(PHYSICAL THERAPY, education
postgraduate courses, in Poland)

WEISS, Marian; DERUJSKA, Irmina; SKIBINSKA, Anna

Therapeutic restoration of diseases of the motor organs in old age. Polski tygod. lek. 15 no. 6: 211-215 8 F '60.

1. Ze Szpitala Chirurgii Koennej w Konstancinie; dyrektor: doc. dr. med. Marian Weiss.

(MOVEMENT DISORDERS in old age)

S/194/62/000/001/052/066
D201/D305

AUTHORS: Kossakowski, Zdzisław, Tor, Bogdan, Zienkiewicz, Ryszard and Derulski, Zygmunt

TITLE: Design and assessment of technical requirements and of the measuring methods for UHF FM transmitters and receivers, used in mobile land communication systems of the Polish People's Republic

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-7-145 i (Prace Inst. Łączn., 1960, 7, no. 2, 3-37)

TEXT: The assessment is given of technical requirements and of the methods of measurements as applied to the mobile equipment for land operation. It is suggested that these requirements and methods be included in the Radio Communication Specifications issued by the Department of Long Distance Communications in 1960. The technical requirements and the methods of measurements apply to the mobile equipment, operating at frequency ranges 33-35, 44-46, 150-156

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Design and assessment ...

S/194/62/000/001/052/066
D201/D305

Mc/s. The corresponding specifications for the equipment in the 305-315 Mc/s range are being worked out at the Department of Long Distance Communications. / Abstracter's note: Complete translation. / ✓

Card 2/2

DERUM, Laymon Al'bertovich; KOSTINA, V., red.

[Diamonds came to the workshops] Almazy prishli v tsekh.
Saratov, Saratovskoe knizhnoe izd-vo, 1964. 44 p.

(MIRA 17:10)

1. Glavnyy tekhnolog zavoda "Kommunist", gorod Marks (for
Derum)

DERUMS, V.

Bechterew's disease in the ancient inhabitants of the Baltic region according to the materials of archaeological excavations. Izv. AN Latv. SSR no.10:83-86 '63. (MIRA 17:1)

✱

DERUMS, V.Ya.

Tuberculous spondylitis in ancient inhabitants of the Baltic countries based on material of archaeological excavations.
Probl. tub. 41 no.10:86 '63. (MIRA 17:9)

1. Iz Respublikanskoy klinicheskoy bol'nitsy imeni P. Stradynya
(glavnyy vrach L.G. Shcherbakova) Ministerstva zdravookhraneniya
Latviyskoy SSR.

DERUMS, V.Ya.

Some paleopathological data on the inhabitants along the Baltic Sea. Arkh. anat., gist. i embr. 46 no.3:80-90 Mr '64.

(MIRA 17:12)

1. Kafedra patologicheskoy anatomii (zav. - doktor med. nauk prof. S.P. Il'inskiy) Rizhskogo meditsinskogo instituta i Institut eksperimental'noy i klinicheskoy meditsiny AN Latvyskoy SSR (direktor - akademik doktor med. nauk P.Ya. Gerke). Adres avtora: Riga, ul. Altonavas 6, Institut Eksperimental'noy klinicheskoy meditsiny AN Latvyskoy SSR).

GUREVICH, Yu.M.; DERUN, A.M.

Interference suppressing apparatus for electric correlation.
Geofiz.razv. no.14:116-125 '63. (MIRA 17:3)

DERUNOVA, M. K.

N/5
924.927
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"National Bibliographic Registration of Printed Works in the USSR" (Gosudarstvennaya Bibliograficheskaya Registratsiya Proizvedeniy Pechati v SSSR), Moscow, Goskul'tprosvetizdat, 1952. 33 p.
Bibliographical footnotes.

CHECK LIBRARY

DERUNOVA, Ye.V.

Drug therapy in chronic respiratory insufficiency. Nauch.trudy
Riaz.med.inst. 18 no.2:91-104. '64.

(MIRA 19:1)

1. Kafedra gosital'noy terapii (zav. - prof. N.A.Troitskiy)
Ryazanskogo meditsinskogo instituta.

DERUSOV, I.S., dots.; SIVYY, V.B., inzh.

Efficient construction of an underground mine ventilation system.
Izv.vys.ucheb.zav.; gor.zhur. no.2:158-160 '60. (MIRA 14:5)

1. Khar'kovskiy inzhenerno-ekonomicheskoy institut.
(Mine ventilation)

DERUSOV, V.P.

Shot drilling with reverse circulation in the Krivoy Rog Basin.

Izv.vys.ucheb.zav.; geol.i razv. 5 no.3:131-136 Mr '62.

(MIRA 15:4)

1. Krivorozhskiy gornorudnyy institut.

(Krivoy Rog Basin--Boring)

DERUSOV, V.P.; YAROSHENKO, V.A.; SEMERGEYEVA, Ye.A.

Initial deflections of boreholes in the Krivoy Rog Basin. Sbor. nauch.
trud. KGRI no.20(3):73-84 '63. (MIRA 16:9)

DERUSOV, V.P.; YAROSHENKO, V.A.

New developments in shot drilling using flushing fluids. Sbor. nauch.
trud. KGRI no.20(3):85-97 '63. (MIRA 16:9)

DERUSOV, V.P.

Using petroleum and solar oil paths in drilling boreholes in the
Krivoy Rog Basin. Sbor. nauch.trud. KGRI no.20(3):105-110 '63.
(MIRA 16:9)

DERUSOV, V.P.; YAROSHENKO, V.A.

Interrelation between the wear of the boring bit, consumption of shot, and mechanical speed during shot boring. Sbor. nauch. trud. KGRI no. 21:66-82 '63.

Results of testing shot boring bits of various structures in the Arivoy Rog Basin. Ibid.:83-92 (MIRA 17:7)

DERUSOV, V.P.; YAROSHENKO, V.A.

Flushing conditions in test holes during shot drilling. Izv.vys.
ucheb.zav.; geol. i razv. 6 no.10:112-120 0 '63.

(MIRA 18:4)

1. Krivorozhskiy gornorudnyy institut i Trest "Krivbasgeologiya".

DERUSOV, V.P.; YAROSHENKO, V.A.

Methods for improving the operation of shot feeders. Razved.
i okh. nedr 29 no.11:35-38 N '63.

(MIRA 17:12)

1. Krivorozhskiy gornorudnyy institut (for Derusov). 2. Trest
"Krivbasageologiya" (for Yaroshenko).

1. Method for determining the core yield in the testable complex

total deposit. Received. 1 km. near 30 m. 1:10-05. 11. 11. 11.

(Mint 12:11)

1. Trivirozhskiy gosnauknyy institut (for Berzov, Chelnyak).

2. Karadzhinskaya geologorazvedochnaya ekspeditsiya (for
Bersukov).

EXCERPTA MEDICA Sec. 6 Vol. 11/7 July 57
DERUSOWA, E

4265. DERUSOWA E. III Klin. Chor. Wewn. Śląskiej A.M., Kraków. *Od cukromoczu nerkowego do kwasicy ketonowej. From renal glycosuria to ketonic acidosis PRZEGL. LEK. 1956, 12/10 (299-300)

A man of 35 yr. remained under clinical observation for 5 weeks because of glycosuria 1.5%. His glycaemia was 98 mg./100 ml. to 120 mg./100 ml. The curve of glycaemia after oral charge with glucose was low and flat. The case was recognized as kidney diabetes. After one year the patient appeared for the 2nd time with glycosuria 7.3%, specific gravity: 1.032 and acetonuria. The fasting glycaemia fluctuated between 325 mg./100 ml. and 476 mg./100 ml. The reversible glucose absorption test of Reubi was normal. The case has now been recognized as diabetic acidosis and treated as classical diabetes.

Mikułowski - Cracow

DERUSOWA, Ewa; SKOTNICKA, Barbara

Biochemical research on venous blood of extremities in obliterative vascular lesions. II. Lipemia. Polskie arch. med. wewn. 28 no.5:663-669 1958.

1. Z III Kliniki Chorob Wewnętrznych Sz. A.M. w Bytomiu. Kierownik: prof. dr med. K. Gibinski. Adres: III Klinika Chorob Wewnętrznych Sz. Ak.Med. Bytom, Batorego 15.

(VASCULAR DISEASES, PERIPHERAL, blood in
in venous blood, lipids, venous in obliterative dis (Pol))
(LIPIDS, in blood
venous, in obliterative peripheral vasc. dis. (pol))

DERVENEVA-UKHOVA, V.P.

Comparative ecology of synanthropic species of the families
Muscidae and Calliphoridae (Diptera). Med.paraz. i paraz.bcl.
30 no.1:27-37 Ja '61. (MIRA 14:3)

1. Iz entomologicheskogo otdela Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinovskogo Ministerstva zdavookhraneniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. otdelom - prof. V.N. Beklemishev).
(DIPTERA)

NASALEVSKI, Evtim, st. tekhnolog; DERVENKOVA, Dimitrina, st. tekhnolog

New technology in processing woolen trousers. Tekstilna prom
13 no. 2:18-21 '64.

1. Scientific Research Institute of the Textile Industry, Sofia.

DERVICHIAN, D.G.

Mechanical and optical investigations on structure of colloidal solutions. D. G. Dervichian, M. Joly, and H. S. Titcher (Kolloid Z., 1954, 181, 8-10). Rheological and optical properties of water-soluble systems have been investigated in the region of the isotropic phase. Measurements of viscosity and the angle of extinction demonstrate the existence of four regions limited by well-defined frontiers. The system investigated was water-K laurate-KCl. P. G. MARSHALL

DERVICHIAN, D.C.

Foams and foam destruction. D. C. Dervichian (Z. Elektrochem., 1955, 59, 290-296).—A discussion of foam formation and destruction is presented. The stability of foam bubbles depends on the physical properties of the adsorbed foaming-agent layer as well as on the rate of adsorption and desorption. Stability decreases if the adsorbed layer is too thin or too thick. Substances which can diffuse out along the surface of the foaming-agent solution and therefore form a saturated layer surface are the best foam destroyers. Since the relation between molecular structure and physical state of the adsorbed layer are known, general rules for the choice of the best foaming-agent and destroyer can be drawn up.

J. C. J. J.

Handwritten initials and markings.

IOFFE, B.V.; SERGEYEVA, Z.I.; DERVINSKAYE, K.M.

Aminonitrile cleavage of quaternary aldehyde hydrazone salts.
Zhur. ob. khim. 33 no.8:2794-2795 Ag '63. (MIRA 16:11)

1. Leningradskiy gosudarstvennyy universitet.

DERVISE, V.

"Suitable use of harnesses and tractors in collective farms." p. 21 (SOCIALISTIČKA
POLJOPRIVREDA, Vol. 4, no. 1, Jan. 1953, Beograd, Yugoslavia)

SC: Monthly List of East European Accessions Vol. 2, #8, Library of Congress
August 1953, Uncl.

25647-66 EWT(1)/EWT(m)/EWA(d)/ENP(t) DIAAP/IJP(s) 27/127
 ACC NR: AP6002704 SOURCE CODE: UR/CO58/65/049/006/1681/1688

AUTHOR: Gol'danskiy, V. I.; Belov, V. F.; Devishaya, M. N.; Trukhtanov, V. A. 69

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR) 6

TITLE: Investigation of internal magnetic fields on Fe^{57} nuclei in Ni-Zn ferrites by the nuclear gamma resonance method 19 27 27 27 18

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1681-1688

TOPIC TAGS: electron density, zinc compound, ferromagnetic material, Mossbauer effect, ferrite, iron, line splitting, magnetic field, paramagnetic material

ABSTRACT: The authors obtained the Mossbauer spectra of the Ni-Zn series of ferrites and determined the values of the internal magnetic field on the Fe^{57} nuclei with the zinc concentration varied from 0 to 1 (at 300 and 78K). The apparatus used was of the electrodynamic type, described in detail elsewhere (Zavodskaya laboratoriya No. 12, 1965). The ferrites were prepared by a standard ceramic technique. From the spectra obtained it is deduced that with increasing zinc content, up to total substitution of zinc for the iron ions, the ferrite goes over from the ferrimagnetic ordered state to a paramagnetic state. The line splitting in the pure nickel ferrite can be attributed to the existence of two fields with different ion positions. Smaller values of the field correspond to tetrahedral positions of the iron ions. Both the positive components of the field and the electron density in the region increase simultaneously.

Cord 1/2

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ACC NR: AF6002704

At 78K the character of the Mossbauer spectra is similar to that at room temperature, except that the lines converge at larger zinc contents, the internal magnetic field on the nuclei are larger, and the difference in the values of the internal field due to the different positions of the iron ions is also larger. With increasing zinc content, the field on the iron nuclei in both the tetrahedral and in the octahedral sublattice decreases, in contradiction to the data obtained by Abe, Matsuura, et al. (J. Phys. Soc. Japan v. 18, 1400, 1963). Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 20/ SUBM DATE: 25 May 65/ ORIG REF: 002/ OTI REF: 015

Card 2/2

DERVISHI, M.: KAKARRIQU, Z.

"Data on the tuberculosis in bovine animals and swine"

Buletin. Seria Shkencat Natyrore. Tirane, Albania. Vol. 12, no. 4, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

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BC

PROCESSES AND PROPERTIES INDEX

Blood-urea and nutrition. G. V. Duvina and A. V. Lyukova (J. Physiol. U.S.S.R., 1967, 25, 436-445).—On a meat diet the blood-urea (T) is 2-3 times that on a carbohydrate (II) diet and even greater when meat is taken without fat. A single meal of meat produces a considerable rise in (T), which remains a max. in 6 hr. A single meal of (II) produces a small decrease in (T). H. D.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNOPTIC										FROM SUMMARY									
SYNOPTIC										SUMMARY									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

11F

SECRETION-STIMULATING PROPERTY OF GASTRIC MUCUS AND JUICE. I. P. RASENKOV, G. V. DERSV and S. N. STEFANOVICH. *Vysigysnail Ind. Eksp. Med. K. Neuro-Humoral'not Regulatsii Sekretii Zhaludka* (Moscow) 1936, 47-50 (in English 91-3).—A substance stimulating the secretory function of the gastric glands was demonstrated in gastric juice from a Pavlov pouch of a dog, in the gastric mucosa of a fasting dog. It was stable to heat at pH 3-4, but was more readily destroyed at low pH and very rapidly at alk. reaction or when electrolyzed. It could not be extd. by alc. or ether. S. A. CORSON

ASSOCIATE METALLURGICAL LITERATURE CLASSIFICATION

CR

6

The genesis of the magnetite deposit of Gorn Blagodat in the North Ural Mountains. G. V. Derviz. *Compt. rend. acad. sci. U. R. S. S. [N. S.]*, 2, 270-82 (1966) in French.—D. describes the deposit and gives the opinions of others on its origin. He believes that the deposit formed at a temp. of 400-600°C as a result of both emanation and injection in the contact zone of the syenitic mass. John R. Millery

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

11 F

CA

Biochemical changes in senility. G. V. Derviz. Trans. Conf. Senility, Kiev 1938, 213-19. Dry residue of blood is diminished in aged individuals and in dogs. Total protein is raised; globulin and fibrinogen increase; albumin/globulin ratio decreases. C/N ratio in urine is augmented; amt. of glutathione is increased. Hemoglobin is almost normal. Increased excretion of creatine is found in aged subjects. B. C. P. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

5TH AND 6TH ORDERS

7TH AND 8TH ORDERS

9TH AND 10TH ORDERS

11TH AND 12TH ORDERS

13TH AND 14TH ORDERS

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17TH AND 18TH ORDERS

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87TH AND 88TH ORDERS

89TH AND 90TH ORDERS

91ST AND 92ND ORDERS

93RD AND 94TH ORDERS

95TH AND 96TH ORDERS

97TH AND 98TH ORDERS

99TH AND 100TH ORDERS

119

Ch

PROCESS AND PROPERTIES INDEX

The effect of blood transfusion on the blood gases in traumatic shock. G. V. Derz, O. N. Bulanova, and A. G. Stepanenko. *Klin. Med. (U.S.S.R.)* 21, No. 9, 51 (1943). Expts. on dogs are reported. After traumatic shock an oxygen deficiency is produced in the venous blood. This causes a shift in the acid-base system, with the appearance of acid substances in the blood, and a lowering of the alk. reserve. The transfusion of massive doses of blood gradually restores a normal balance of the gases and a normal condition of the acid-base system.

S. Gottlieb

ASS-11A METALLURGICAL LITERATURE CLASSIFICATION

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LIST AND INDEX		PROCESSES AND PROPERTIES INDEX		LIST AND INDEX	
<p>Biochemical changes in blood and urine in acute poisoning with aniline and other amino and nitro derivatives of benzene. G. V. Derviz and P. A. Rozenberg. <i>Farma-ki i Toksikol.</i> 8, No. 4, 19-23(1965). Clinical studies of 30 victims of acute poisoning by PhNH₂, PhNO₂, or <i>m</i>- or <i>p</i>-nitraniline showed that methemoglobin disappears from the blood, and <i>p</i>-aminophenol from the urine, about the 2nd day. The first blood test shows glutathione near its upper normal limit. The Gabbie index is often increased, but drops back to normal. Bilirubin rises in the first few days (to 4 mg. % in 1 case) but returns to normal with convalescence, e. g., about the 10th day. Combined phenols in blood and urine are increased, and part of the increase persists for a long time. Julian F. Smith</p>					
<p>11 H</p>					
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>					
SECOND SYMBOLISM		RELATIONS		SECOND SYMBOLISM	
<p>1ST AND 2ND LETTERS</p>		<p>1ST AND 2ND LETTERS</p>		<p>1ST AND 2ND LETTERS</p>	

114

PROCESSES AND PROPERTIES INDEX

Biochemical changes in blood under chronic action of aniline and other amino- and nitro-benzene derivatives. G. V. Dervic and P. A. Rozenberg. *Farmakol. i Toksikol.* 3, No. 5, 40-3(1945). Clinical observations on 27 patients with 3 months to 22 years of occupational exposure in the Dorkhim chem. works showed that blood phenols, urine phenols, hemoglobin, erythrocyte count, blood glutathione and serum bilirubin fluctuated mostly within normal limits excepting that urine phenols tended to be high (range 11.5-98.5 mg. %, all but 3 above 30 mg. %). The ratio of combined to free phenols varied from 0.1 to about 5. Blood phenols ranged from 1.25 to 2.7 mg. %, ratio of combined to free phenols, 0.09 to 0.5 (no combined phenols in 1 case). Changes in blood bilirubin gave evidence of hemolysis. Though glutathione content varied considerably, the glutathione index remained within normal limits (5.6 to 8.0) since high glutathione and high erythrocyte count went together.

Julian P. Smith

METALLURGICAL LITERATURE CLASSIFICATION

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ALPHABETIC INDEX																																																																													
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Oxygen fixation capacity of the blood in aniline poisoning. G. V. Derya and G. N. Meshcherina. <i>Farmakol. i Toksikol.</i> 6, No. 1, 58-9 (1946).-- Blood tests in dogs after subcutaneous injection of PhNH ₂ . (1) showed effects of varying the dose (30, 60, and 70 mg/kg) and of giving 1 alone or in 3% soln. in Ringer soln. Dissocn. of O is decreased, e.g., from 30% breakdown of oxyhemoglobin in controls to 15% in dogs receiving 1. The activity of hemoglobin (H) remaining in the poisoned blood is apparently above normal. Changes in respiratory functioning of the blood are attributed to pH changes, not directly to 1. Decrease in active H content and higher activity of remaining H toward O are leading factors in the toxic action of 1. Julian F. Smith																																																																													
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CA

11B

Technique of obtaining curves for gas fixation in the blood. G. V. Derviz and A. P. Belousov. *Farmakol. i Toksikol.* 9, No. 2, 56-62(1946).--A modified Friedrich tonometer is described and illustrated. It permits simultaneous filling of 2 or more saturators, and offers improved means for transferring blood samples to the pipet of the saturator and from the saturator to the electrode tube. The new app. is superior in versatility, simplicity, and accuracy in studies of respiratory functions of the blood. Data are presented for fixation of O and CO₂ in the blood. Julian F. Smith

ASS. SLA. DETAIL LITERATURE CLASSIFICATION

11-6

ca

Ossessive exchange in traumatic shock. G. V. Kozlov, O. N. Bulanova, and M. N. Astrakhan. *Ann. Med. (U.S.S.R.)* 25, No. 4, 22-33, discussion 31-8 (1947). - Lung ventilation and carbohydrate consumption may be raised during shock. The respiratory coeff. is 0.7 to 0.85 and returns to 0.9 to 1.0 during recovery. The respiratory coeff. during apnoea varies from 0.9 to 1. H. L. W.

ASTM-SEA METALLURGICAL LITERATURE CLASSIFICATION

Cand Med Sci.

DERVIZ, G. V.

Dissertation: "Gas Exchange in the Case of Traumatic Shock."

7/7/50

Acad Med Sci USSR

SO Vecheryaya Moskva
Sum 71

ASATIANI, V.S. [author]; DERVIZ, G.V. [reviewer].

"Biochemical analysis." V.S. Asatiani. Reviewed by G.V. Derviz. Biokhimiya
18 no. 4:508-512 J1-A; '53. (MLBA 6:8)
(Biochemistry) (Asatiani, V.S.)

BULANOVA, O.N. (Moscow); DIERVIZ, G.V., professor, zavednyushchiy.

Activity of catalase in the blood in leukemias. Klin.med. 31 no.8:46-51
Ag '53. (MIRA 6:11)

1. Biokhimicheskaya laboratoriya Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi.
(Leukemia) (Oxidases) (Blood)

DERVIZ, G.V. [reviewer]; LINDGREN, I.M. [author].

Discussion on I.M.Lindgren's article "Method of diagnosing deficiency of
vitamin B₁." Klin.med. 31 no.10:85-86 0 '53. (MLRA 6:11)
(Deficiency diseases) (Vitamins) (Lindgren, I.M.)

DERVIZ, G.V. prof.

Switching to the gram percent system of computing hemoglobin in
extensive medical practice. Lab.delo no.2:3-7 Mr-Apr '55;
(MLRA 8:8)

1. Iz biokhimicheskoy laboratorii (zav.-prof. G.V. Derviz) Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir.-chlen-korrespondent AMN SSSR prof. A.A. Bagdasarov)
(HEMOGLOBIN, determination,
conversion to gram percent values, technic)

DERVIZ, G.V.; GINZBURG, F.G.

"Methods of chemical blood analysis." S.D. Balakhovskii, I.S.
Balakhovskii. Reviewed by G.V. Derviz, F.G. Ginzburg. Biokhimiia
20 no.6:749-752 N-D '55. (MLRA 9:3)

(BLOOD--ANALYSIS AND CHEMISTRY) (BALAKHOVSKII, S.D.)
(BALAKHOVSKII, I.S.)

DERVIZ, G.V.

USOV, Aleksandr Aleksandrovich; POGODAYEV, Konstantin Il'ich; DERVIZ, G.V.,
professor, redaktor; SENGHILO, K.K., tekhnicheskiiy redaktor

[Universal nomographic chart for computation and methods of
determination of reaction of oxidation-reduction potential of
biological liquids] Universal'naya nomogramma dlia vuchisleniia
i metody opredeleniia aktivnoi reaktsii i okislitel'no-vosstano-
vitel'nogo potentsiala biologicheskikh zhidkostei. Moskva, Gos.
izd-vo med.lit-ry, 1956. 30 p. (MLRA 10:7)
(BLOOD--ANALYSIS AND CHEMISTRY)
(OXIDATION-REDUCTION REACTION)

DERVIZ, G.V.

In reference to S.A.Troitskii's letter. Lab.delo 2 no.1:29-30
Ja-F '56. (MIRA 9:10)
(HEMOGLOBIN) (MEDICAL INSTRUMENTS AND APPARATUS)

DERVIZ, G.V.

The journal "Problems of medical chemistry", Vol.1, 1955. Lab. delo
2 no.4:31-32 J1-Ag '56. (MIRA 9:10)
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL--PERIODICALS)

USSR / Human and Animal Physiology. Blood Circulation. T
General Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101807.

Author : Derviz, G. V.; Koziner, V. B.; Lazarevskiy, S. A.
Inst : Not given.
Title : Gaseous Interchange, Respiratory Function of Blood
and Hemodynamics After Replacement of a Consider-
able Amount of Blood by Blood Substitutes.

Orig Pub: Patol. fiziologiya i eksperim. terapiya, 1957, 1,
No 2, 48-56.

Abstract: Blood pressure, respiration and pulse, gaseous in-
terchange, oxygen capacity of blood, content of O₂
and CO₂ in arterial and mixed venous blood, disso-
ciation curves of O₂, the volume of circulating
blood and the hematocrite index were determined in

Card 1/3

Cent. Inst. Hematology & Blood Transfusion
12000005

26

USSR / Human and Animal Physiology. Blood Circulation. T
General Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101807.

Abstract: dogs, and ECG was registered. The introduction of blood substitutes to exsanguinated animals led to restoration of gaseous interchange (with a certain exceeding of the initial level) and normalization of respiratory coefficient. The CO₂ dissociation curve did not change. The compensation of acute anemic hypoxia took place either by way of an increase of the coefficient of O₂ utilization or at the expense of an increase of the minute cardiac output. In blood substitution with dextran, both ways were utilized in equal measure. In replacement with isoserum compensation occurred in greater degree at the expense of cardio-vascular system reverses. After introduction of Belen'ky serum, the compensation took place only at the

Card 2/3

... USSR / Human and Animal Physiology. Blood Circulation. T
General Problems.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101807.

Abstract: expense of an increase of O_2 utilization and an arterio-venous difference. The introduction of polyglucine and isoserum led to an insignificant decrease of PO_2 in venous blood, and the introduction of Belen'ky's serum decreased it sharply. The application of blood substitutes which restore the hemodynamics most completely (for ex. polyglucine) is preferable. -- V. E. Gurvich.

Card 3/3

27

USSR / Human and Animal Physiology. Metabolism.

T

Abs Jour : Ref Zhur - Bioll, No 15, 1958, No. 69787

Author : Derviz, G. V.; Smidovich, V. N.

* Inst : ~~Not given~~

Title : The Coefficient of Acid Production as an Index of the Quality of Oxidative Processes in the Organism

Orig Pub : Labor. delo, 1957, No 5, 8-16

Abstract : For characterization of the state of oxidative processes in the organism it is suggested that the coefficient of acid production (CAP) be determined, which is the ratio of the amount of organic acid (in milliequivalents) to the amount of nitrogen (in gm) in the daily urine. Determination of the content of organic acids was carried out electrometrically. In healthy persons, the CAP varied within limits of 4.6-7.0. In patients with cancer of the stomach, leukoses, lung abscess and burns, the CAP was elevated (to 17.7). -- V. I. Rozengart

Card 1/1

* L2 Tsentral'noy ORDENA LENINA INSTITUTE GEMATOLOGII i PERELIVANIYA KROVI MINISTERSTVA ZDRAVOOKHRANENIYA, SSSR, Moskva.

~~DERVIZ, G.V., LAZOREVSKIY, S.A.~~

Double manometric apparatus for the analysis of blood gases; double
van Slyke's apparatus [with summary in English]. Vop.med.khim.
4 no.6:464-466 N-D '58 (MIRA 12:1)

1. Institute of Hematology and Blood Transfusion, Ministry of Public
Health of the USSR, Moscow.

(MANOMETERS.

van Slyke's double manometric appar. for analysis of
blood gases (Rus))

(BLOOD,

same (Rus))

DERVIZ, G.V.; ASTRAKHAN, M.N.; VAKSMAN, L.F.

Relation of various proteins to the action of hot solutions of
sulfosalicylic acid [with summary in English]. Biokhimiia 23
no.1:3-10 Ja-F '58. (MIRA 11:3)

1. Biokhimicheskaya laboratoriya Tsentral'nogo instituta gematologii
i perelivaniya krovi, Moskva.

(BLOOD PROTEINS,

eff. of hot solutions of sulfosalicylic acid (Rus)

(SALICYLIC ACID, related cpds.

sulfosalicylic acid in hot solutions, eff. on blood
proteins (Rus)

DERVIZ, G.V., prof.

Answer to the readers. Lab. delo 5 no.1:63 Ja-F '59 (MIRA 12:3)
(HEMOGLOBIN)

DERVIZ, G.V.; VOBOB'YEV, A.I.

Quantitative determination of hemoglobin with the FMK-M apparatus. Lab.
delo 5 no.3:3-8 My-Je '59. (MIRA 12:6)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - prof. A.A. Bagdasarov) i 3-y kafedry terapii TSentral'nogo
instituta usovershenstvovaniya vrachey (zav.-prof. I.A. Kassirskiy),
Moskva.

(HEMOGLOBIN) (COLORIMETRY)

DERVIZ, G.V.

"Metabolism in mental illness." Reviewed by G.V. Derviz.
Vop. med. khim. 7 no. 1:107-109 Ja-F '61. (MIRA 14:4)
(METABOLISM) (MENTAL ILLNESS)